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## DESCRIPTIONS OF TWO NEW FOSSILS FROM THE DEVONIAN OF IOWA.

BY CHARLES R. KEYES.

**Conocardium altum** nov. sp. (Plate XII, figs. 4a and 4b.)

Shell of medium size, subtrigonal, anterior view broadly cordate. Anterior end truncate, with a forward slope from the umbones to the lower anterior sharply rounded extremity. Dorsal margin behind the beaks slightly curved, with the edges of the valves incurved, while in front of the beaks it is produced forward into a more or less prominent alate extension; basal margin crenate within; posterior extremity at the hinge line decidedly angular. Beaks rather prominent, gibbous, incurved. Hiatus lanceolate; occupying about two-thirds of the lower posterior margin. Surface marked by simple, regular, radiating costæ, about forty in number, twenty-five of which occupy that portion of the shell behind the umbonal slope; the umbonal slope is broad, bordered on each side by a prominent costa which gives it a decided biangular appearance; the costæ are crossed by numerous fine, crowded concentric lines; and a few larger somewhat imbricated lines of growth.

Length 24 mm.; breadth 21 mm.; height 20 mm.

*Horizon and locality.* Limestones of the Hamiltonian at Iowa City, Iowa.

This species somewhat resembles certain forms of *C. trigonale* of Hall, but the very broad strongly biangular umbonal slope readily distinguishes it from that species. It also approaches some congeneric forms from the Devonian of Europe, especially certain species from the western part of France, recently described by M. Œhlert[1]

**Cyrtoceras opimum** nov. sp. (Plate XII, fig. 5.)

Shell rather large, strongly curved, gradually expanding toward the outer chamber, but enlarging more rapidly transversely than in the opposite direction; transverse section broadly elliptical, slightly flattened on the ventral side. Distance between the septa about one-fifth or one-sixth the transverse diameter.

*Horizon and locality.* Hamiltonian of Johnson county, Iowa.

This is a large and robust species from the Iowa Devonian, having a length along the dorsum of probably forty or forty-five centimetres, and a transverse measurement of eighteen or twenty centimetres; dorso-ventral diameter of outer chamber nearly six centimetres. It has been found at various exposures of Hamiltonian limestone in Johnson and the contiguous counties. It appears to be closely related to certain species from the Niagarian of the western states.

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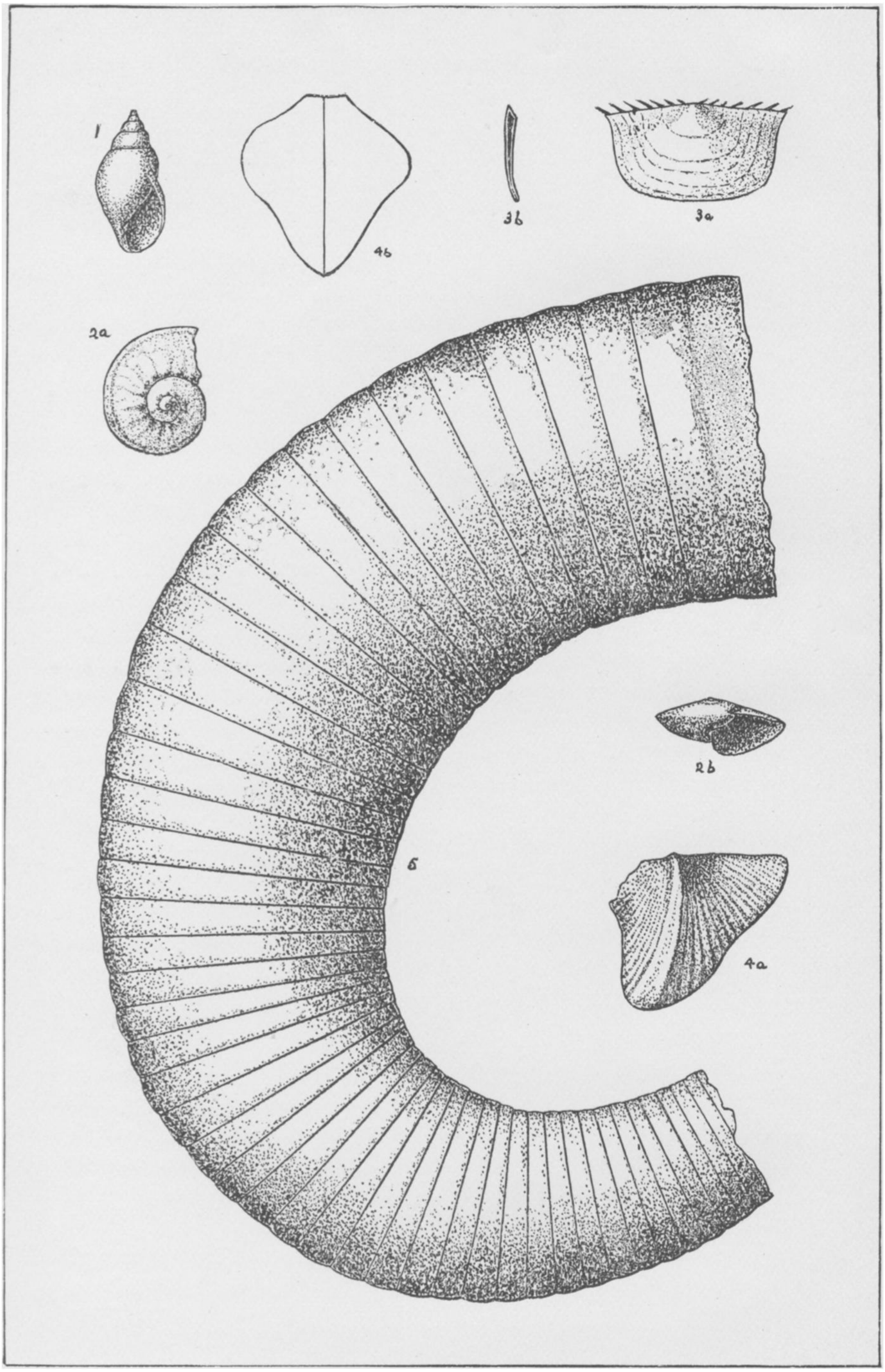
[1] Étude sur quelques Fossiles Dévoniens de l'ouest de la France.

## EXPLANATION OF PLATE XII.

FIG. 1. *Macrocheilus humilis* n. s. . . . . . . . page . . . . . . . .
Enlarged about 5 diameters.
FIG. 2. *Pleurotomaria modesta* n. s. . . . . . . . . . .
2a. View from above, × 2.
2b. Profile, × 2.
FIG. 3. *Chonetes lœvis* n. s. . . . . . . . . . . .
3a. An average sized specimen, × 2.
3b. Longitudinal section, × 2.
FIG. 4. *Conocardium altum* n. s. . . . . . . . . . . .
4a. Lateral view.
4b. Dorsal outline.
FIG. 5. *Cyrtoceras opimum* n. s. . . . . . . . . . . .
Reduced to ⅔ natural size.



KEYES, ON IOWA FOSSILS.

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Mr. THOMAS MEEHAN, Vice-President, in the chair.

Twelve persons present.

### AUGUST 14.

Mr. CHAS. H. PENNYPACKER in the chair.

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### AUGUST 21.

Dr. A. E. FOOTE in the chair.

Seven persons present.

### AUGUST 28.

Mr. ISAAC C. MARTINDALE in the chair.

Ten persons present.

Mr. John Shallcross was elected a member.

### SEPTEMBER 4.

Mr. THOMAS MEEHAN, Vice-President, in the chair.

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### SEPTEMBER 11.

Dr. J. B. BRINTON in the chair.

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